

Chart A

U.S. Patent No. 5,761,621 Claim 1	U.S. Patent No. 5,761,621 Claim 13	U.S. Patent No. 5,761,621 Claim 23
<p>1. A radio frequency management system for reallocation of radio spectrum among a plurality of wireless communication networks using [transmission] differing radio frequency modulation protocols [and/or] and differing radio frequencies to communicate with a plurality of frequency and protocol agile portable radio devices each of which is responsive to portable radio device control signals to change its operating frequency and modulation protocol, comprising</p> <p>capacity detection means for generating a frequency request signal upon determining that a first wireless communication network operating using a first radio frequency spectrum allocated to said first wireless communication network and using a first modulation protocol, is at or near full capacity,</p> <p>frequency reallocating means responsive to a frequency request signal for reassigning temporarily radio spectrum from a second wireless communication network operating using a second radio frequency spectrum allocated to said second wireless communication network and different from said first radio frequency spectrum and using second modulation protocol, [utilizing less of its normally assigned allocated radio frequency] to the first communication network determined by said capacity detection means to be at or near full capacity, and</p> <p>means for causing portable radio control signals in at least some of the frequency and protocol</p>	<p>13. A method for reallocation of radio frequency spectrum among a plurality of wireless communication networks at least some of which may be available and operating at a given time and location using differing [transmission] radio frequency modulation protocols [and/or] and over differing radio frequencies to communicate with a plurality of frequency and protocol agile portable radio devices each of which is responsive to portable radio device control signals to change its operating frequency and [transmission] modulation protocol, comprising the steps of</p> <p>generating a frequency request signal upon determining that a first wireless communication network is at or near full capacity,</p> <p>reassigning temporarily in response to [a] said frequency request signal radio spectrum from a wireless communication network utilizing less of its normally assigned radio frequency to the communication network determined to be at or near full capacity, and</p> <p>causing portable radio control signals in at least some of the frequency and protocol agile portable radio</p>	<p>23. A radio frequency management system for providing information useful in selecting among a plurality of wireless communication networks having different and variable operating characteristics and accessed by a plurality of portable radio devices each of which is capable of accessing any of the plurality of wireless communication networks comprising:</p> <p>wireless communication network monitoring means for monitoring the current network load of each of the plurality of wireless communication networks;</p> <p>processing means connected with said network monitoring means for receiving a signal indicative of said current network load and for generating a signal representing current operational characteristics of each of the wireless communications networks in response thereto;</p> <p>network information transmission means connected with said processing means for</p>

agile portable radio devices to change their operating frequency and [transmission] modulation protocol to permit the portable radio devices so changed to communicate over the temporarily reassigned radio spectrum.	devices to change their operating frequency and [transmission] transmission (sic modulation) protocol to permit the portable radio devices so changed to communicate over the temporarily reassigned radio spectrum.	receiving said signal and for transmitting said operational characteristics for each of the plurality of wireless communication networks to each of the plurality of portable radio devices thereby allowing each of the portable wireless devices to selectively access one of said plurality of wireless communications networks in response to said operational characteristics.
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